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## Factors of gully erosion on agricultural lands of the Republic of Tatarstan

Gaifutdinova R., Yermolaev O.

*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

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### Abstract

© 2016, International Journal of Pharmacy and Technology. All rights reserved. This article discusses the factors of gully erosion and their spatial and temporal variation. According to the intensity of spatial and temporal variability of action all factors are divided into the groups of conservative and dynamic factors. The conservative group combines geological and geomorphological factors. The dynamic group is represented by anthropogenic and hydroclimatic factors. In order to explore the current dynamics of gully erosion on the territory of the Republic of Tatarstan the remote sensing of Earth data were used. Six basic pools, located in different geomorphological landscape areas, were selected as the objects of study concerning modern gully erosion. Using multi-temporal satellite images within the studied basins a linear and an area increment of gully systems were revealed. The major factors of gully erosion on the territory of the Republic of Tatarstan are determined on the basis of the studied elementary basins.

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### Keywords

Gullies, Gully erosion factors, Space images